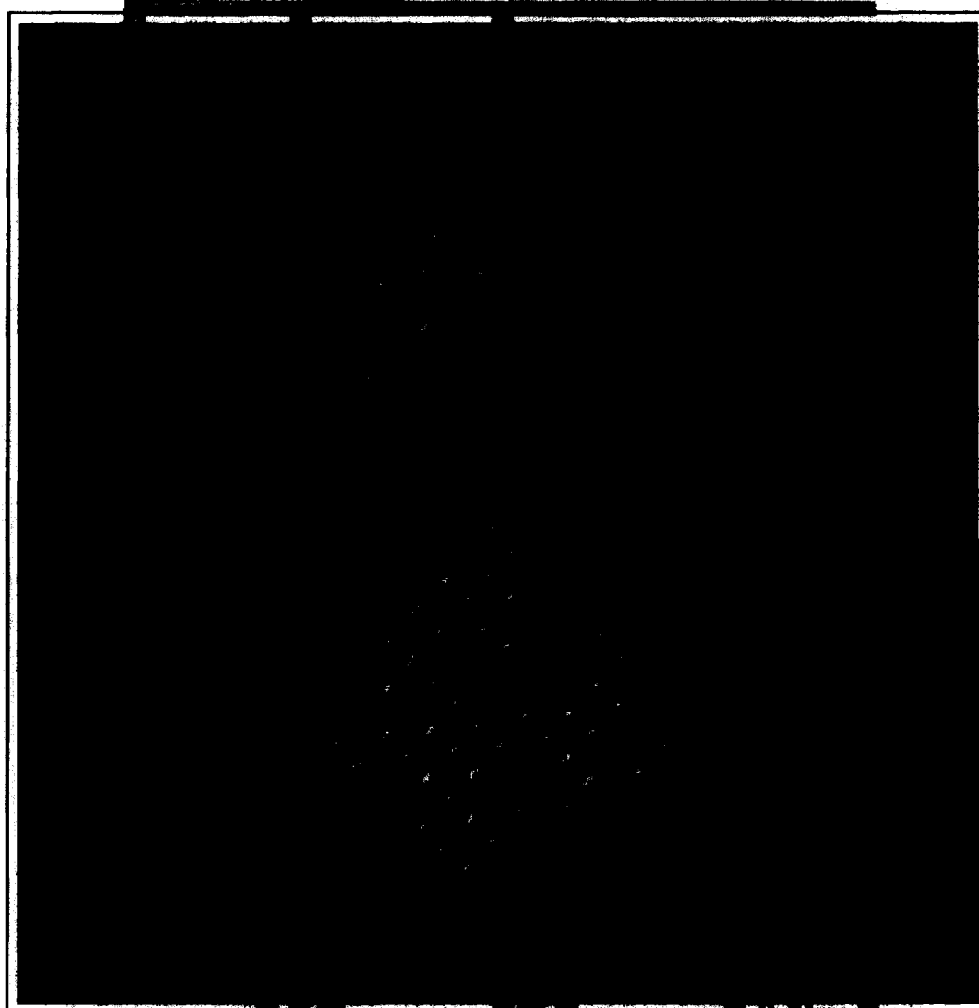


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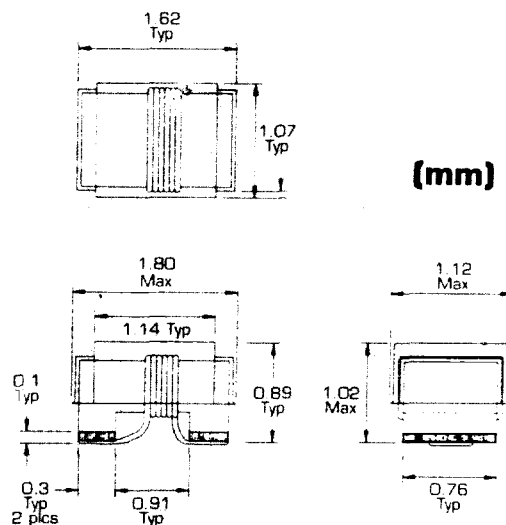
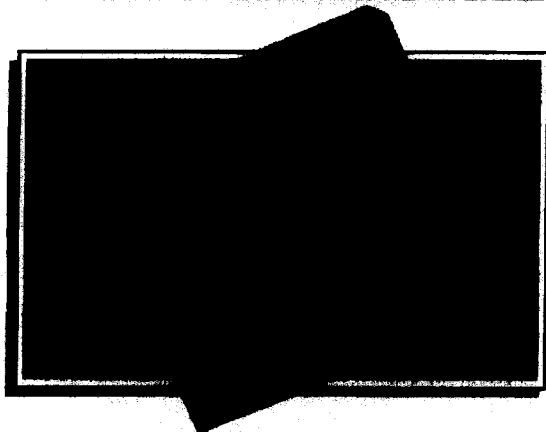
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PRECISION SURFACE MOUNT INDUCTORS

- HIGH Q ▪ HIGH SRF ▪ HIGH CURRENT ▪
- TIGHT TOLERANCE ▪

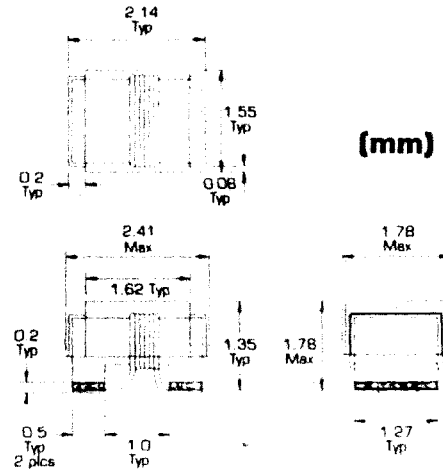
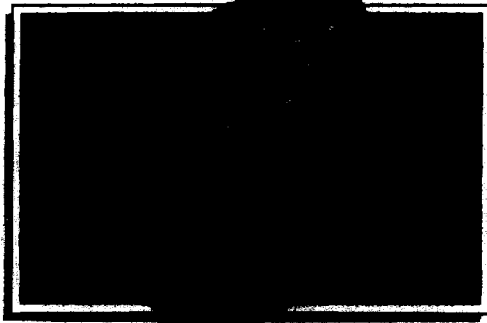
MADE IN USA


STET\$00002



Part Number	L @ Freq. nH Mhz	Available Tolerances	Q @ Freq. Min. Mhz	SRF MHz	DCR ohm	I max. mA	Material
0603G1R4**E	1.4@250	K,M	20@250	>6000	.030	1000	ALUMINA
0603G1R5**E	1.5@250	K,M	20@250	>6000	.030	850	
0603G1R8**E	1.8@250	K,M	16@250	>6000	.040	850	
0603G2R0**E	2.0@250	K,M	11@250	>6000	.080	700	
0603G3R9**E	3.9@250	K,M	22@250	>6000	.070	800	
0603G4R7**E	4.7@250	K,M	25@250	>6000	.090	750	
0603G6R8**E	6.8@250	K,M	30@250	5800	.100	850	
0603G8R6**E	8.6@250	K,M	30@250	5500	.100	850	
0603G100**E	10@250	J,K	31@250	5000	.160	850	
0603G120**E	12@250	J,K	35@250	4000	.110	750	
0603G150**E	15@250	J,K	35@250	4000	.140	750	
0603G180**E	18@250	J,K	35@250	3100	.150	750	
0603G220**E	22@250	J,K	38@250	3000	.180	700	
0603G270**E	27@250	G,J	40@250	2900	.210	700	
0603G330**E	33@250	G,J	40@250	2300	.180	700	
0603G390**E	39@250	G,J	40@250	2200	.220	700	
0603G470**E	47@200	G,J	38@200	2100	.230	600	
0603G560**E	56@200	G,J	40@200	2000	.240	600	
0603G620**E	62@200	G,J	37@200	2000	.250	600	
0603G680**E	68@200	G,J	37@200	2000	.340	600	
0603G720**E	72@150	G,J	34@150	1900	.390	500	
0603G770**E	77@150	G,J	34@150	1900	.390	500	
0603G820**E	82@150	G,J	34@150	1900	.440	500	
0603G900**E	90@150	G,J	34@150	1800	.600	400	
0603G101**E	100@150	G,J	34@150	1800	.600	400	
0603G111**E	110@150	G,J	32@150	1500	.650	400	
0603G121**E	120@150	G,J	32@150	1450	.700	400	
0603G131**E	130@150	G,J	32@150	1400	.800	400	
0603G151**E	150@150	G,J	32@150	1380	1.10	380	
0603G181**E	180@150	G,J	25@150	1350	1.15	350	
0603G201**E	200@150	G,J	25@150	1200	1.20	350	

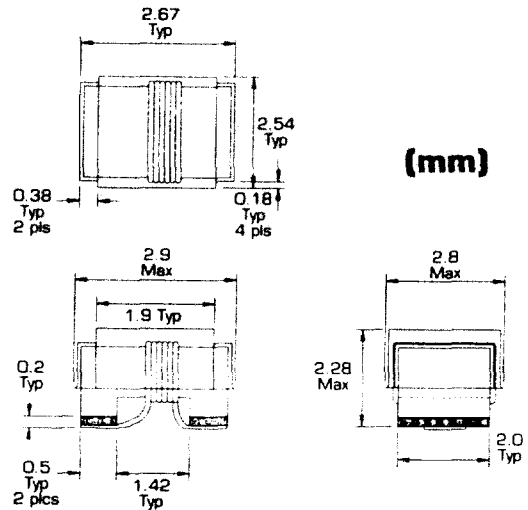
M = 20% K = 10% J = 5% G = 2%



Part Number	L @ Freq. nH Mhz	Available Tolerances	Q @ Freq. Min. Mhz	SRF MHz	DCR ohm	I max. mA	Material
0805G2R4**E	2.4@250	K	55@1800	>6000	05	1000	ALUMINA
0805G2R7**E	2.7@250	K	55@1800	>6000	08	1000	
0805G3R3**E	3.3@250	K	50@1500	>6000	08	1000	
0805G4R7**E	4.7@250	K	60@1500	5000	08	1000	
0805G5R6**E	5.6@250	K	60@1500	5000	09	1000	
0805G6R8**E	6.8@250	K	60@1500	5500	10	1000	
0805G8R2**E	8.2@250	K	55@1000	5000	10	1000	
0805G100**E	10@250	K	60@1500	4500	13	1000	
0805G120**E	12@250	K	65@500	4500	10	1000	
0805G150**E	15@250	K	50@500	4700	10	1000	
0805G180**E	18@250	GJ	70@500	3500	13	1000	
0805G220**E	22@250	GJ	55@500	3200	13	900	
0805G270**E	27@250	GJ	60@500	2700	14	750	
0805G300**E	30@250	GJ	60@500	2000	26	750	
0805G330**E	33@250	GJ	60@500	2200	16	750	
0805G390**E	39@250	GJ	70@500	2100	20	750	
0805G470**E	47@200	GJ	65@500	2000	27	750	
0805G560**E	56@200	GJ	60@500	1900	25	650	
0805G680**E	68@200	GJ	70@500	1700	28	600	
0805G820**E	82@150	GJ	65@500	1600	31	500	
0805G101**E	100@150	GJ	65@500	1500	35	600	
0805G121**E	120@150	GJ	50@250	1300	37	450	
0805G151**E	150@100	GJ	50@250	1200	40	450	
0805G181**E	180@100	GJ	50@250	1100	45	450	
0805G221**E	220@100	GJ	50@250	1000	80	400	
0805G271**E	270@100	GJ	40@200	950	10	320	
0805G331**E	330@100	GJ	45@200	890	12	260	
0805G391**E	390@100	GJ	45@200	830	15	200	
0805G471**E	470@100	GJ	45@200	750	25	170	
0805G561**E	560@100	GJ	45@200	700	35	170	
0805G681**E	680@50	GJ	45@200	650	40	170	
0805G102**E	1000@25	J	15@25	100	25	170	

K = 10% J = 5% G = 2%

NOTES:



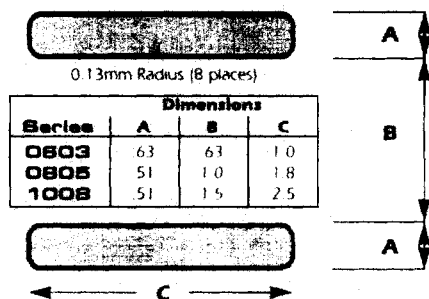
Part Number	L @ Freq. nH Mhz	Available Tolerances	Q @ Freq. Min. Mhz	SRF MHz	DCR ohm	I max. mA	Material
1008G4R7**E	4.7@100	J,K	60@1500	>6000	.12	1000	ALUMINA
1008G8R2**E	8.2@100	J,K	70@1500	>6000	.08	1000	
1008G100**E	10@100	J,K	70@500	2400	.05	1850	
1008G120**E	12@100	J,K	70@500	3000	.09	1000	
1008G150**E	15@100	J,K	50@500	3000	.20	1000	
1008G180**E	18@100	G,J	75@350	2600	.11	1000	
1008G220**E	22@100	G,J	75@350	2400	.06	1450	
1008G270**E	27@100	G,J	60@350	1600	.13	1000	
1008G330**E	33@100	G,J	60@350	1700	.06	1450	
1008G390**E	39@100	G,J	70@350	1500	.075	1300	
1008G470**E	47@100	G,J	65@350	1400	.075	1300	
1008G560**E	56@100	G,J	65@350	1200	.09	1260	
1008G680**E	68@100	G,J	65@350	1100	.09	1260	
1008G820**E	82@100	G,J	60@350	1000	.15	1000	
1008G101**E	100@100	G,J	65@350	1000	.15	820	
1008G121**E	120@100	G,J	60@350	1000	.15	820	
1008G151**E	150@100	G,J	45@100	825	.18	820	
1008G181**E	180@50	G,J	50@100	770	.20	770	
1008G221**E	220@50	G,J	50@100	690	.26	660	
1008G271**E	270@50	G,J	50@100	650	.30	610	
1008G331**E	330@50	G,J	50@100	570	.45	500	
1008G391**E	390@50	G,J	45@100	520	.70	470	
1008G431**E	430@50	G,J	45@100	500	.75	470	
1008G471**E	470@50	G,J	45@100	490	.78	470	
1008G561**E	560@35	G,J	45@100	440	1.20	400	
1008G621**E	620@35	G,J	45@100	400	2.10	300	
1008G681**E	680@35	G,J	45@100	390	2.10	280	
1008G751**E	750@35	G,J	45@100	330	2.30	280	
1008G821**E	820@35	G,J	45@100	360	2.30	270	
1008G911**E	910@35	G,J	40@50	310	2.70	270	
1008G102**E	1000@35	G,J	40@50	330	2.70	270	
1008G122**E	1200@35	G,J	40@50	310	3.00	250	
1008G152**E	1500@35	G,J	40@50	250	5.20	180	
1008G182**E	1800@35	G,J	35@50	225	7.20	130	
1008G222**E	2200@7.9	G,J	20@7.9	75	4.50	130	FERRITE
1008G272**E	2700@7.9	G,J	20@7.9	44	4.80	130	
1008G332**E	3300@7.9	G,J	20@7.9	31	5.20	130	
1008G392**E	3900@7.9	G,J	20@7.9	36	5.40	130	
1008G472**E	4700@7.9	G,J	20@7.9	28	6.00	130	
1008G562**E	5600@7.9	K	20@7.9	21	6.50	100	
1008F152**E	1500@7.9	J,K	22@7.9	250	.95	370	
1008F182**E	1800@7.9	J,K	22@7.9	235	1.10	350	
1008F222**E	2200@7.9	J,K	22@7.9	225	1.20	280	
1008F332**E	3300@7.9	J,K	22@7.9	165	1.50	250	
1008F392**E	3900@7.9	J,K	22@7.9	135	1.60	200	
1008F472**E	4700@7.9	J,K	22@7.9	125	2.70	180	
1008F562**E	5600@7.9	J,K	22@7.9	110	4.10	180	
1008F682**E	6800@7.9	J,K	22@7.9	105	5.40	180	
1008F822**E	8200@7.9	J,K	22@7.9	96	6.80	130	
1008F103**E	10,000@7.9	K	22@7.9	88	8.00	130	

K = 10% J = 5% G = 2%

GENERAL SPECIFICATIONS

- CORE MATERIAL IS RUBALIT 708 (ALUMINA) 96% AL₂O₃
- WRAP AROUND TERMINATIONS
- TERMINATIONS ARE TUNGSTEN-NICKEL WITH GOLD FLASH, 0.1um SOLDER COAT OPTIONAL
- MOLDED FLAT TOP
- 8mm TAPE AND REEL
- SPECIAL VALUES AVAILABLE
- FERRITE 1008F:**
- WIRE TERMINATIONS ARE SPOT WELDED TO SILVER TIN NICKEL METALLIZATION

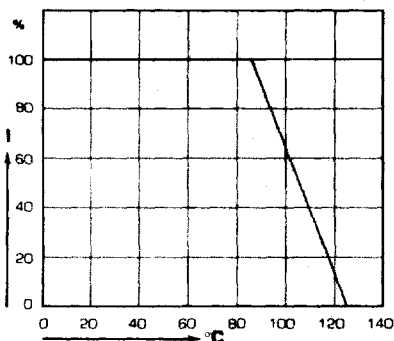
SOLDER PAD LAYOUT



CURRENT CARRYING CAPABILITY

DEPENDENT ON THE AMBIENT TEMPERATURE.

These measurements were conducted with coils soldered on Al₂O₃ substrates, 96%, size 10 x 10 x 0.6 mm.



CORE MATERIAL: Rubalit 708 (Alumina) 96% Al₂O₃ O(3)
MATERIAL PREPARATION: The ceramic is pressed and fired at 1600 degrees Celsius in air.

METALLIZATION PROCEDURE: The base metallization is tungsten, applied through a screen printing process. The tungsten is fired at 1500 degrees Celsius in an inert atmosphere. Next, electrolytic nickel layer is a minimum 2um thick (5um typical). This nickel is then sintered at 850 degrees Celsius. Over the nickel an electrolytic gold flash 1um is applied.

COPPER WIRE DESCRIPTION: The wire is high temperature enamelled copper wire. The wire bears the trade name Estersol at U.L. and is equivalent to the ANSI-TYPE NW 77L(NEMA). Typical tin bath temperature is approximately 470 degrees Celsius.

1 0 0 8 G 1 5 2 K T E

PACKAGE STYLE
 (in this data series, package style is denoted by the first two digits of the part number.)

INDUCTANCE
 (in this data series, inductance is denoted by the next three digits of the part number.)

COATING
 Epoxy Encapsulated

***PACKAGING**
 (T = 8mm tape and reel, 20000 per carrier)
 (W = Jumbo Pack (40000))

TOLERANCE
 G = 2% J = 5% K = 10% M = 20%

EXAMPLE: 1008 size 1500nh 10% tape and reel

0803G SERIES CHIP INDUCTORS

L	50	75	100	150	200	300	500	600	700	800	900	1000	1200	1400	1600	1800
nH	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz
1.4	12	15	18	22	26	33	43	46	49	51	53	55	57	59	61	63
1.6	11	14	17	21	25	31	41	44	47	49	51	53	55	57	59	61
1.8	10	13	16	20	24	30	40	43	46	48	50	52	54	56	58	60
2.0	9	12	15	19	23	29	39	42	45	47	49	51	53	55	57	59
2.2	8	11	14	18	22	28	38	41	44	46	48	50	52	54	56	58
2.4	7	10	13	17	21	27	37	40	43	45	47	49	51	53	55	57
2.6	6	9	12	16	20	26	36	39	42	44	46	48	50	52	54	56
2.8	5	8	11	15	19	25	35	38	41	43	45	47	49	51	53	55
3.0	4	7	10	14	18	24	34	37	40	42	44	46	48	50	52	54
3.2	3	6	9	13	17	23	33	36	39	41	43	45	47	49	51	53
3.4	2	5	8	12	16	22	32	35	38	40	42	44	46	48	50	52
3.6	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
3.8	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
4.0	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
4.2	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
4.4	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
4.6	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
4.8	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
5.0	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
5.2	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
5.4	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
5.6	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
5.8	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
6.0	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
6.2	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
6.4	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
6.6	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
6.8	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
7.0	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
7.2	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
7.4	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
7.6	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
7.8	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
8.0	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
8.2	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
8.4	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
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8.8	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
9.0	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
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9.6	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
9.8	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
10.0	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
10.2	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
10.4	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
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10.8	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
11.0	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
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11.8	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
12.0	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
12.2	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
12.4	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
12.6	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
12.8	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
13.0	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
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13.4	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
13.6	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
13.8	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
14.0	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
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14.4	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
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15.8	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
16.0	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
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17.2	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
17.4	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
17.6	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
17.8	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
18.0	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51
18.2	1	4	7	11	15	21	31	34	37	39	41	43	45	47	49	51

